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NOTICE OF ALLOWANCE AND FEE(S) DUE

23125

7590

01/15/2009

FREESCALE SEMICONDUCTOR, INC. LAW DEPARTMENT 7700 WEST PARMER LANE MD:TX32/PL02 AUSTIN, TX 78729

EXAMINER					
FULK, STEVEN J					
ART UNIT	PAPER NUMBER				
2891					

DATE MAILED: 01/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075.218	02/14/2002	Thomas S. Kobayashi	SC11931TP	8301

TITLE OF INVENTION: SEMICONDUCTOR DEVICE HAVING A FUSE AND METHOD OF FORMING THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

maintenance fee notifica	itions. ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Note Fee(e: A certificate of a	mailing can only be used s certificate cannot be use	for domestic mailings of the d for any other accompanying
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	SEMICONDUCT	OR, INC.	I her	reby certify that thi	is Fee(s) Transmittal is be	ing deposited with the United
	RMER LANE MD:	TX32/PL02	addr trans	essed to the Mail smitted to the USP	Stop ISSUE FEE addre FO (571) 273-2885, on the	ing deposited with the United first class mail in an envelope ss above, or being facsimile e date indicated below.
AUSTIN, TX 78	8129					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	. CONFIRMATION NO.
10/075,218	02/14/2002	•	Thomas S. Kobayashi	•	SC11931TP	8301
TITLE OF INVENTION	: SEMICONDUCTOR I	DEVICE HAVING A FU	SE AND METHOD OF FO	RMING THEREC	F	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	E FEE TOTAL FEE(S) D	UE DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/15/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS			
FULK, S	TEVEN J	2891	257-529000	•		
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 ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form 			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to			
PTO/SB/47; Rev 03-0 Number is required.	02 or more recent) attach	ed. Use of a Customer	2 registered attorney of a 2 registered patent attor listed, no name will be	rnevs or agents. If i	no name is 3	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or typ	pe)		
PLEASE NOTE: Un	less an assignee is identi thin 37 CFR 3.11. Comm	ified below, no assignee	data will appear on the pa T a substitute for filing an	atent. If an assigne	ee is identified below, the	e document has been filed for
(A) NAME OF ASSI		nedon of this form is two	(B) RESIDENCE: (CITY		OUNTRY)	
. ,			, ,		·	
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual L Co	rporation or other private	group entity 🔲 Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Plea	se first reapply an	y previously paid issue f	ee shown above)
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5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY statu	/	☐ b. Applicant is no long	ran alaimina SMAI	I ENTITY status See 27	CED 1.27(a)(2)
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interest as shown by the	records of the United Sta	tes Patent and Trademark	C Office.	ne appream, a regi	stered attorney or agent, or	i the assignee of other party in
Authorized Signature				Date		
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This collection of inform	nation is required by 37 C	FR 1 311 The information	on is required to obtain or r	etain a benefit by th	ne public which is to file (and by the USPTO to process)
an application. Confiden submitting the complete this form and/or suggest Box 1450. Alexandria V	itiality is governed by 35 dtaility is governed by 35 d application form to the ions for reducing this but living a 22313-1450 DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the	1.14. This collection is est depending upon the indivice Chief Information Office COMPLETED FORMS TO	imated to take 12 n idual case. Any co r, U.S. Patent and ' THIS ADDRESS	ninutes to complete, inclumments on the amount of Trademark Office, U.S. D	and by the USF1O to process) ding gathering, preparing, and time you require to complete epartment of Commerce, P.O. er for Patents, P.O. Box 1450,
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,218	02/14/2002	Thomas S. Kobayashi	SC11931TP	8301
23125 7:	590 01/15/2009		EXAM	INER
FREESCALE SI	EMICONDUCTOR, I	FULK, S'	TEVEN J	
LAW DEPARTM		ART UNIT	PAPER NUMBER	
7700 WEST PARMER LANE MD:TX32/PL02 AUSTIN, TX 78729		2891 DATE MAILED: 01/15/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 666 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 666 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/075,218	KOBAYASHI ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Steven J. Fulk	2891			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course. THIS			
2. X The allowed claim(s) is/are 1-7,9,11-18,20,23,26 and 27.					
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicat	ion No			
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		ew (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	(1 10 040) attached			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	s Amendment / Comment .84(c)) should be written on	the drawings in the front (not the back) of			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	informal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment s Statement of Reasons for Allowance			

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Art Unit: 2891

DETAILED ACTION

Response to Amendment

1. Applicant has amended claims 1 and 18 to overcome the previous rejection. Therefore, the rejection of claims 1-7, 9, 18, 20 and 23 has been withdrawn. Applicant has also canceled claims 24 and 25, and added claims 26 and 27. Claims 11-17 were previously indicated to be allowable.

Allowable Subject Matter

- 2. Claims 1-7, 9, 11-18, 20, 23, 26 and 27 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: a search of the prior art failed to disclose or reasonably suggest a semiconductor device comprising a substrate, a passivation layer formed overlying at least a portion of the substrate, a fuse formed overlying the passivation layer; and a packaging material formed in contact with an entire length of the fuse (claim 11) or in contact with an entire surface of the fuse (claims 1 and 18).

Kono '756 discloses a semiconductor device, comprising: a substrate (fig. 1, 102) having a first circuit formed therein (col. 6, lines 34-37; row decoder), a second circuit formed therein (column decoder), and a fuse (fig. 1, 130); wherein the fuse is formed overlying and in contact with the passivation layer; and a packaging material formed in contact with over the fuse (col. 11, lines 33-39; fuse is opened and entire chip is packaged in resin, thus covering the exposed areas of the fuse show in fig. 1), wherein the packaging material is selected from the group consisting of a mold compound

(resin) and an underfill; but Kono does not teach limitations of claims 1, 11 and 18 as described above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Fulk whose telephone number is (571)272-8323. The examiner can normally be reached on Monday through Friday, 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sue Purvis can be reached on (571) 272-1236. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2891

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Steven J. Fulk Patent Examiner Art Unit 2891 December 29, 2008

/Douglas M Menz/ Primary Examiner, Art Unit 2891 1/5/09